RIKHTER, V.G., kandidat geologo-mineralogicheskikh nauk.

Pseudotectonic phenomena connected with human activity.
Priroda 46 no.4:83-86 Ap '57. (MLRA 10:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova (Moskva),

(Earth--Surface)

BAYBULATOVA, Z.K.; LEVIN, A.I.; RIKHTER, V.G.

Relation between the basic structural elements of the Kara-Bogaz region. Izv. AN SSSR Ser. geol. 29 no.7252-58 Jl '64 (MIRA 18:1)

l. Nauchno-iseledovateliskaya laboratoriya geologicheskikh kriteriyev otserki perspektiv neftogazonosnosti, Moskva.

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

ALIYEV, M.M.; BORODOVSKIY, O.K.; RIKHTER, V.G.

Basic problems of a combined study of the Casplan Sea.

Izv.AN Azerb.SSR. Ser.geol.-geog.nauk no.2:3-9 64.

(MIRA 18:11)

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ACC 148: AP7010685

SOURCE CODE: UR/0215/66/000/012/0118/0123

AUTHOR: Rikhter, V. G.; Vol'vovskiy, I. S.

ORG: VNII Geofizika

TITLE: Neotectonics as an index of anomalous crustal thicknesses

SOURCE: Sovetskaya geologiya, no. 12, 1966, 118-123

TOPIC TAGS: tectonics, upper mantle, lower mantle

SUB CODE: 08

ARSTRACT: R. M. Demenitskaya has demonstrated that the elevations of the earth's surface are in close functional dependence on the thickness of the earth's crust. Mathematically this relationship is expressed by the formula

M = 33 th(0.38 H-0.18) + 38,

where M is the crustal thickness at a particular point, H is the elevation of the earth's surface above sea level, in km. However, it has been shown that many special curves intersect the generalized R. M. Demenitskaya curve or run parallel to it. In this refinement of that author's work, the authors consider points not falling on this generalized curve (characterizing isostatic equilibrium of the crust) to be anomalous, and seek to interpret

Card 1/2

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

ACC NR: AP7010685

their pattern. However, instead of using heights of relief, as in earlier studies, the authors now use the amplitudes of the most recent tectonic movements. The analysis of thicknesses of the crust and the amplitudes of these recent vertical tectonic movements, illustrated in this paper, revealed a close dependence between the latter and anomalous deviations in crustal thickness. It is concluded that deviations from the R. M. Demenitskaya curve in any direction characterize regions of recent uplifts or downwarpings, regardless of their genetic nature. Orig. art. has: 3 figures and 3 formulas. [TPRS: 40,291]

Card 2/2

RIKHTER, Vladislav Gavrilovich; NIKOLAYEV, N.I., red.

[Methods of studying the recent and latest tectonics of the shelf zones of seas and oceans] Metody izucheniia noveishei i sovremennoi tektoniki shel'fovykh zon morei i okeanov. Moskva, Nedra, 1965. 243 p. (MIRA 18:10)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RIKHTER, V.G., kand. geol.-mineral. nauk (Moskva)

Ancient mud volcanoes on Artem Island. Priroda 54 nc.8:92-94
Ag '65.

(MIRA 18:8)

ACCESSION NR: AP4018052

\$/0006/64/000/002/0023/0027

AUTHORS: Vol'pert, M. I.; Rikhter, V. G.

TITLE: Some geological problems that can be solved by level surveys

SOURCE: Geodeziya i kartografiya, no. 2, 1964, 23-27

TOPIC TAGS: tectonic movement, earth crust, structural form, uplift, depression, anticline, level survey, structural zone, data interpolation, data extrapolation

ABSTRACT: Classification of successively developing structural forms of the earth's crust can be established by running repeated level surveys of the denudation and accumulation surfaces. By this method the contemporary tectonic movements can be determined quantitavely, geological structure may be clarified, structural zones and related valuable deposits (oil, gas, etc) may be located. Repeated level surveys determine the direction and rate of vertical movements, as explained by M. I. Sinyagina, Yu. A. Meshcheryakov, A. A. Izotov, and others. The work consists of determining high-accuracy elevations along the established state survey grid lines and of repeating this process after a period of time. A comparison of the results provides definite answers to the problem of vertical movements. Studies already completed indicate a correlation between tectonic

ACCESSION NR: AP4018052

movements, thickness of deposits, and the nature of the foundation. When combined with geophysical studies, these survey studies also clarify the relations between the rate of vertical movements, gravity anomalies, magnetic field, etc. While traverses repeated after 30-70 years show elevation differences measurable only in centimeters over large regions, they also show much larger variations on local terraces and denudation surfaces. Low-accuracy and medium-accuracy rapid instruments should be used in the latter cases. The application of automatic altimeter determinations (as described by M. Vol'pert in Geodeziya i kartografiya, No. 9, 1960, and by M. Vol'pert and A. Chistyakov in Strukturno-geomorfologicheskiye. issledovaniya v Prikaspii, 1962) has shown relative terrace movements (since 1959) of 1.5-1.8 m in the Oleynikovskoye and Promyslovskoye uplifts and of 5-6 m in the Prikumskiy region. The automatic altimeter determinations may be replaced by standard surveying, by trigonometric computations, and by barometric studies carried out along lines or polygons based on established bench marks. River terraces should be surveyed along both shores and should extend over at least 2 or 3 surfaces. Sea terraces should be surveyed completely around uplifts which formed islands in the periods of transgressions. Oscillatory movements can also be determined by level surveys along the fracture zones. This application is of a special practical importance because valuable deposits are often associated with

ACCESSION NR: AP4018052

such zones. In these studies level surveys should be carried across the faults, bench marks should be established 200 m apart, and measurements taken after each 2-3 months. High-accuracy surveys so conducted show oscillation amplitudes of 0.5-0.7 mm in 1 km. When repeated every month, they help in investigating hydrothermally and thermally caused crustal movements and may prevent structures from being placed across mobile zones. It has been suggested by several authors that such studies should be combined with gravimetric investigations. Although only the vertical components of crustal movements were discussed, the presently available equipment makes it possible to measure distances cheaply and rapidly. In the future, the horizontal components of movements will be measured, and the actual resultant displacements will be determined.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 19Mar64

EXCL: 00

SUB CODE: ES

NO REF SOV: 002

OTHER: 000

Card 3/3

VOLUMENT, M.1.; RIKHTER, V.G.

Some problems in geology solved by means of leveling. Geod.

1 kert, no.2:23-27 F '64. (MIRA 17:3)

RIKHTER, V.G.

Method for determining the relative age of marine terraces according to the degree of their tectonic deformation. Izv. AN SSSR. Ser. geog. no.4:68-74 Jl-Ag '63. (MIRA 16:8)

l. Nauchno-issledovatel'skaya laboratoriya otsenki perspektiv gazonosnosti krupnykh territoriy.

(Terraces (Geology))

RIKHTER, V.G.; SAMSONOV, S.K.

On the last pages of the geological history of the Caspian Sea. Izv. AN SSSR. Ser. geog. no.6:87-91 N-D '61. (MTRA:14:12)

NILNeftegaz Glavgeologii RSFSR i Institut geologii i razrabotki goryuchikh iskopayemykh AN SSSR.

(Caspian Sea—Geology)

KLENOVA, Mariya Vasil'yevna; SOLOV'YEV, Vladimir Filippovich;
ALEKSINA, Iya Aleksandrovna; VIKHRENKO, Nina Makarovna;
KULAKOVA, Lidiya Sergeyevna; MAYEV, Yegor Georgiyevich;
RIKHTER, Vladislav Gavrilovich; SKORNYAKOVA, Nadezhda
Sergeyevna; ZENKOVICH, V.P., otv. red.; LEONT'YEV, O.K.,
red. izd-va; IADYCHUK, L.P., red. izd-va; GUS'KOVA, O.M.,

¡Geology of the subsurface slope of the Caspian Sea]Geologicheskoe stroenie podvodnogo sklona Kaspiiskogo moria.
[By] M.V.Klenova i dr. Moskva, Izd-vo Akad. nauk SSSR, 1962. 636 p. (MIRA 15:9)

(Caspian Sea-Geology) (Caspian Depression-Geology)

Some features in the formation of the sculptural relief of Apsheron.

Tzv.AN SSSR.Ser.geog. no.3:69-76 My.Je '61. (MIRA 14:5)

1. Kompleksnaya Yuzhnaya geologicheskaya ekspeditsiya. (Apsheron Peninsula—Erosion)

RIKHTER, V.G.

Vertical movements of the earth crust and fluctuat. Ins in the level of Caspian Sea. Geog. v shkole 24 no.2:16-20 Mr.Ap '61.

(MIRA 14:3)

(Caspian Sea. Coast changes)(Caspian Sea. Submarine geology)

RIKHTER, V.G.; GOFMAN, Ye.A.; MAYEV, Ye.G.

Study of shore lines on the floor of the Caspian Sea. Dokl. AN SSSR 135 no.6:1476-1479 D '60. (MIRA 13:12)

1. Institut geologii i razrabotki goryuchikh iskopayemykh Akademii nauk SSSR. Predstavleno akademikom A.L. Yanshinym. (Caspian Sea-Submarine geology)

BEZBORODOV, R.S.; GOFMAN, Ye.A.; RIKHTER, V.G.

Bedding of Bajocian sediments in the northwestern Caucasus. Izv.Ad SSSR.Ser.geol. 25 no.1 94-97 Ja '60. (MIRA 13:8)

1. Institut geologii i rızrabotki goryuchikh iskopaemykh AN SSSR, Moskva. (Caucasus, Northern-Geology, Stratigraphic)

CIA-RDP86-00513R0014449

APPROVED FOR RELEASE: Tuesday, August 01, 2000

RIKHTER, Y.G.

History of the caravansary on Baku Bay. Dokl. AF Azerb. SSR 16 20.3:255-260 '60. (MIRA 13:7)

i. Kompleksnaya yuzhnaya geologicheskaya ekspeditsiya AN SSSR. Predstavleno akademikom AN AzerSSR M.M. Aliyevym. (Baku Bay region-Geology, Structural)

GOFMAN, Ye.A.; IOMIZE, M.G.; RIKHTER, V.G.; KHAIN, V.Ye.

Characteristics of the geological developent of the northwestern

Characteristics of the geological developent of the northead Caucasus in the lower and middle Jurassic. Izv.vys.ucheb.zav.; Geol.i razv. 3 no.4:43-57 Ap '60. (MIRA 13:7)

[. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. (Caucasus, Northern-Geology)

RIKHTER, V.G.

Role of the tectonic factor in the formation and evolution of river deltas. Izv.AN SSSR.Ser.geog. no.3:26-33 My-Je 60. (MIRA 13:6)

Kompleksnaya yuzhnaya geologicheskaya ekspeditsiya.
 (Deltas)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

RIXHTER, V.

Increasing the accuracy of one inequality of S.N.Bernstein
for large deviations. Vest.LGU 14 no.1:24-29 '59.

(MIRA 12:4)

(Inequalities (Mathematics))

3(5)

\$/026/60/000/02/008/052 0031/0002

AUTHOR:

Rikhter, V.G., Candidate of Geologic-Mineralogical

Sciences

TITLE.

Why Have the Predictions Failed? The Movements of the Earth's Crust and the Fluctuations of the Caspian Sea

的一种,我们就是一个人,我们就是这个人的,我们也没有一个人,我们就是这个人的,我们就是这个人的,我们就是这一个人,我们就是这个人的,我们就是这个人的,我们就是这

Level.

PARIODICAL.

Priroda, 1960, Nr 2, pp 45-50 (USSR)

ABSTRACT:

The article contains a generalization of the material available on the present tectonics of the Caspian Sea depression. It points out its significance and that a correct solution of the problem of the Caspian Sea level can be obtained only by considering the results of studies on the present vertical movements of the earth's crust and on the basis of climatic data. The drop and rise of the Caspian Sea level have been known for a long time. With the help of historical documents,

Card 1/7

S/026/60/000/02/008/052 D031/D002

Why Have the Predictions Failed? The Movements of the Earth's Crust and the Fluctuations of the Caspian Sea Level.

it is possible to restore the heights of the sea level for the past 2,000 years. The fluctuations are due to many factors among which the water intake and discharge play a great role. But also the present vertical movements of the earth crust change the holding capacity of the sea's depression and influence its level. The "tectonic" fluctuation theory of the Caspian Sea level was developed in the works of K.M. Ber, G.V. Abikh, N.I. Andrusov, A.D. Arkhangel'skiy, L.P. Gerasimov and many other geologists. They based their opinion on the history of the basin and the region's development during the Neogene - quarternary period. They regarded the rise and fall of the sea's level during the last centuries as one of several moments in the life of the basin

Card 2/i

S/026/60/000/02/008/052 D031/D002

Why Have the Tredictions Failed? The Movements of the Earth's Crust and the Fluctuations of the Caspian Sea Level.

characterized by a complicated geological history and structure. They admitted that climatic factors also play a considerable part in inland water basins. Starting from hydro-meteorological prerequisits, B.D. Zaykov summed up the water storage elements of the Caspian Sea, and they apparently fully confirmed the climatic theory and furnished material for predictions of the sea's level so much needed for systematically conducting the national economy. In fact, the climatic theory proved incapable of furnishing a founded prediction even for several years in advance. A conference on the Caspian Sea level in 1956 passed a decision indicating that the level will systematically drop during the coming year. But in 1957 the sea level began to rise intensively, and this process continues in spite of the

Card 3/7

5/026/60/000/02/008/052 D031/D002

Why Have the Predictions Failed? The Mwements of the Earth's Crust and the Fluctuations of the Caspian Sea Level.

fact that the flow of the Volga has fallen. In examining the cause for the uncertainty in predicting the Caspian Sea level on the basis of climatic forecasts, the author quotes A.V. Voznesenskiy who stated that it will scarcely be possible to explain the large level fluctuations only by climatic variations / Ref. 1, p 46 / For a correct solution of the problem data on the present vertical movements of the earth crust should be employed. The author explains the basic laws of these movements and how they manifest themselves. He comes to the conclusion that in the Caspian Sea, the present tectonics follow in a general outline the same movements which developed during the last 28 to 30 million years. At present, the northern part of the Caspian Sea experiences, apparently,

Ca d 4/7

\$/026/60/000/02/008/052 0031/0002

Why Have the Predictions Failed? The Movements of the Earth's Crust and the Fluctuations of the Caspian Sea Level.

very weak downward movements, whereas the southern part most probably gradually rises. The present vertical movements are characterized by irregularity in time, while in some districts a periodicity in the vertical movements can be recorded by the fluctuating level established by the water measuring posts. There are 29 such posts located along the Caspian Sea coast which carry out observations over a long period of time. The processing of the results showed that the speed of the movements varies [Ref 1 p 48]. From 1922/23 to 1938/40 a relative stability was observed in all geotectonic zones of the Caspian Sea. From 1938/40 to 1957 a considerable activity of the vertical movements was noted. On this point more details are given in the article. The author then examines to what extent the present

Card 5/7

3/026/60/000/02/008/052 D031/D002

The Have the Predictions Pailed? The Movements of the Earth's Crust and the Fluctuations of the Caspian Sea Level.

vertical movements in the Caspian Sea influence the water level. He calculated the sea's water storage by years using B.D. Zaykov's calculations / Ref 1, p 48 / which are carried up to 1945. Primarily, the level is determined by the influx and flowing off of water masses. From 1944 to 1950 the water level did not rise in spite of a large influx. The author comments on this conflicting phenomental on which is usually explained by the so called inertia of the Caspian Sea. The author rejects this explanation and believes that the increased tectonic activity accounts for this phenomenon. He points out that the study of the character and intensity of the present earth crust movements can give a satisfactory reply to a number of puzzling questions on the behavior of the Caspian

Card 6/7

5/026/60/000/02/008/052 D031/D002

Why Have the Predictions Failed? The Movements of the Earth's Crust and the Fluctuations of the Caspian Sea Level.

Sea Level. There are 6 graphs, 1 map and 4 Soviet references.

ASSOCIATION: Kompleksnaya Yuzhnaya geologicheskaya ekspeditsiya Akademii nauk SSSR, Moskva (Joint Southern Geological Expedition of the USSR Academy of Sciences, Moscow).

Card 7/7

3 (5) AUTHOR:

Rikhter, V. G.

SOV/20-126-2-39/64

TITLE:

Certain Features of the Modern Tectonics of the Caspian Sea Depression (Nekotoryye cherty sovremennoy tektoniki vpadiny

Kaspiyskogo morya)

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 126, Nr 2,

pp 367-370 (USSR)

ABSTRACT:

The author mainly deals with the results of the foot rule observations (futshtochnyye nablyudeniya), in order to determine the recent perpendicular movements of the coasts of the Caspian Sea. By way of introduction, all specific of the Caspian Sea. By way of introduction, all specific of the investigations and the methods employed in features of the investigations and the methods employed in the isolated inland sea reviewed. The best choice of a foot rule is that of Makhachkala, which is relatively stable. Continuous observations of these movements are available since 1900. By deducting the yearly-average sea-gauge readings from the readings at other gauge-locations, the deviation which characterizes the rate and symptoms of the recent perpendicular movement at these other points with regard to the foot rule is obtained. The resulting readings of 29 gauges in the Caspian Sea have shown very interesting

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Certain Features of the Modern Tectonics of the Caspian Sea Depression

sov/20-126-2-39/64

rules holding for the distribution of the earth's crust formations. Two different periods, one from 1920-23 till 1937-1940 and the other from 1937-40 till 1957 (Fig 1) were determined. The first period showed very little divergencies in the gauge variation at all points in the Caspian Sea. In the succeeding years there arises a somewhat intensive tectonic stimulation. Unfortunately, the observations at individual gauges are only of very short duration and also unsatisfactory. The results obtained, drawn-up on a tectonic map (Ref 2), show a close relationship between the direction and rate of recent movements and the biogeny of this or that area. It is evident that the recent risings and fallings are hereditary. The rates on the other hand, and partly the signs, are variable in the course of time. The causes of these irregularities are to be sought in the periodicity of the earth crust's fluctuations. Lesser fluctuations then settle upon the inherited movements, and there arises a peculiar "interference" by waves of different magnitudes. There are 1 figure, 1 table, and 2 Soviet references.

Card 2/3

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

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Certain Features of the Modern Tectonics of the

SOV/20-126-2-39/64

Caspian Sea Depression

ASSOCIATION:

Kompleksnaya yuzhnaya geologicheskaya ekspeditsiya pri

Otdelenii geologo-geograficheskikh nauk Akademii nauk SSSR

(Multi-purpose Southern Geological Expedition of the

Department of Geologic-geographic Sciences of the Academy of

Sciences, USSR)

PRESENTED:

January 24, 1959, by A. A. Grigor'yev, Academician

SUBMITTED:

January 23, 1959

Card 3/3

KHAIN, V.Ye.; AFANAS'YEV, S.L.; BURLIN, Wu.K.; GOFMAN, Ye.A.; LOMIZE, M.G.;
RIKHTER, V.G.

New data on the geology of the northwestern Caucasus (between the Tuapse and Lazarevskoye intersections). Biul. MOIP. Otd. geol. 32 (MIRA 11:4) no.6:132-133 N-D '57.

(Caucasus, Northern-Geology)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

Evaluation of the repeated leveling method in the study of modern tectonic movements. Stul. MCIP. otd. geol. 32 no.2:105-120 Mr-Ap (NIRA 11:3)

157. (Geology, Structural)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444

KHAIN, V. Ye., AFANAS YEV, S. L., BURLIN, Yu. K., GOFMAN, Ye. A., LOMIZE, M. G. and RIKHTER, V. G.

"New Data on the Geology of the North-Western Caucasus"

report delivered in the Geologic Section, 1 March-4 June 1957.

Chronicle of the Activity of the Geologic Section, <u>Byulleten' Moskovskogo</u>

Obshehestva Izpytateley Prirody, Otdel Geologicheskiy, No. 6, p. 115-118, 1957.

Rikhter.

5-6-19/42

AUTHORS:

Khain, V.Ye., Afanas'yev, S.L., Gofman, Ye.A., Lomize, M.G.,

and Rikhter, V.G., Burlin, Yu.K.

TITLE:

New Data on the Geology of the North-Western Caucasus (Novyye dannyye po geologii severo-zapadnogo Kavkaza) Between the Tuapse and Lazarev Crossings (mezhdu Tuapsinskim i Lazarevskim peresecheniyami)

PERIODICAL:

Byulleten' Moskovskogo Obshchestva Ispytateley Prirody, Otdel Geologicheskiy, 1957, # 6, pp 132-133 (USSR)

ABSTRACT

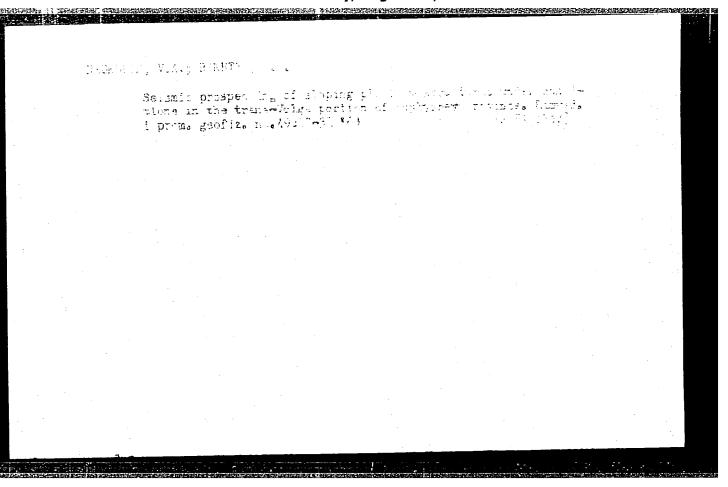
A Caucasian expedition of the MGU, composed of the authors of this paper, carried out during 1955 to 1956 a detailed mapping in the upper parts of the rivers Pshekha, Pshish and Ashe. The expedition studied the following three structural zones of this territory: 1. The monoclinorium of the northern slope; 2. the central anticlinorium; and 3. the flysch zone of the southern

As a result of these explorations, the stratigraphy of the Lower- and Middle-Jurassic deposits was clarified in details and differences in the structure of their columnar sections were discovered. These differences are connected with the structural zonation and deep breaks.

AVAILABLE:

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RIKHTER, V.I.

Necessity for taking refraction into consideration in the interpretation of seismic prospecting materials on Neogene fields. Geofiz. razved. no.16:17-24 '64. (MIRA 18:2)

RIKHTER, V.I.; ZAYDEL'SON, I.I.

Means for constructing and interpreting time sections. Neftegaz.geol. i geofiz. no.1:45-48 '65. (MIRA 18:5)

1. Kuybyshevneftegeofizika.

CCESSION NR: AP5018884	UR/0387/65/000/007/0106/0114 550.834 35
UTHOR: Zaydel'son, I. I.; Redkolis,	v. A.; Rikhter, v. I. 44 33 - 13
ITLE: Use of the electrohydraulic ef	
OURCE: AN SSSR. Izvestiya. Fiziki ze	emli, no, 7, 1965, 106-114
ctivity	eaulic effect, seismic prospecting, seismic
generate electrohydraulic discharges rield work is described which was carrising an electrohydraulic source. The innation of optimum characteristics for electrohydraulic discharges. Recording the shown and analyzed. It was found	ectrohydraulic effect and the equipment used to in the field as a source of seismic waves. ried out near Kinel' in the Kuybyshev District is field work was aimed primarily at the deteror a system for seismic prospecting, using ags of seismic waves set up by these discharges that it is theoretically possible to record strata using electrohydraulic discharges as a trace for discharge of an 87.5 mf battery of

ACCESSION NR: AP5018884 condensers at 24 kv, is comparable gm of TNT. The optimum effect me creasing the total capacity of twhen an electrohydraulic source	he condensers. The reso	lution of the seismic trac or explosions while the lo	ce
frequency interference level is fectiveness of the source, and f pecting. Orig. art. has: 3 fig	or applications in field		ef-
ASSOCIATION: Kuybyshevneftegeof			
SUBMITTED: 17Feb64	ENCL: 00	SUB CODE: ES	
NO REF SOV: 002	OTHER: 000		
	집에 하는 눈이 하다 한 화물을 내려 있는데 있다.		and the second the factor of the second

RIKHTER, V.I.

Interference waves on Reogene fields, countermeasures, possibilities of their utilization, Razved. geofiz. no.4:18-36 '65. (MIRA 18:9)

OREKHOVSKIY, F.V.; RIKHTER, V.I.

Selecting the proper density of seismic observation networks.
Razved. i prom. geofiz. no.37:3-8 '60. (MIRA 14:3)

(Kuybyshev Province—Seismic prospecting)

RIKHTER, Vol'fgang (Leningrad)

Local limit theorems for great deviations [with summary in German].
Teor. veroiat. i ee prim. 2 no.2:214-229 '57. (MLRA 10:11)

(Limit theorems (Probability theory))

RIKHTER, Vol'fgang

Local limit theorems for large deviations. Dokl. AN SSSR 115 no.1:53-56 J1-Ag '57. (MIRA 10:11)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova. Predstavleno akademikom I.M.Vinogradovym.

(Distribution (Probability theory))

VILL FUANG RIKHTER,

20-1-13/54

AUTHOR:

Righter, Vol'fgang

TITLE:

Local Limiting Theorems for Large Deviations (Lokal'nyye predel'nyye teoremy dlya bol'shikh ukloneniy)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 115, Nr 1, pp. 53 - 56 (USSR)

ABSTRACT:

The sequence of the independent accidental quantities X_1 , X_2 ... $V_2(x)$ with the distribution functions $V_1(x)$, $V_2(x)$ be assumed. V₂(x) with the distribution functions $V_1(x)$, $V_2(x)$ be assumed. Further its dispersions DX, =0, 0 is an exist. Its mathematical expectations can without limitation of the generality be equated with zero. The author here designates $K_j(z) = Ee^{zX}j$ (x) as deriving function of the moments

of the quantity X, and puts z,

This paper gives several local limiting theorems for the case of large deviations, i.e. for such x which indefinitely increase with n. Reference is made to several relevant earlier works. The transformation of certain theorems of probability contained in these papers, leads to a certain success in the solution of

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APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R0014449

20-1-13/54

Local Limiting Theoremsfor Large Deviations

the problem of large deviations, which is, however, not cleared up in these earlier works. This transformation is according to its nature a hidden employment of the saddle point method from the theory of the functions of a complex variable. The proofs of the here-given theorems are according to their structure analogous to the prooffcramer's theorem, but here the saddle point method is consistently employed. This furnishes local theorems for uniformly distributed quantities, also in the presence of a density and in the case of lattice-like summands. The author further gives a local theorem for inhomogeneously distributed quantities. These theorems and several corollaries resulting from them are then given. There is not figure.

ASSOCIATION:

Leningrad State University imeni A.A. Zhdanov

(Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova)

PRESENTED BY:

I.M. Vinogradov, Academician, January 28, 1957

SUBMITTED:

December 21, 1956

AVAILABLE:

Library of Congress

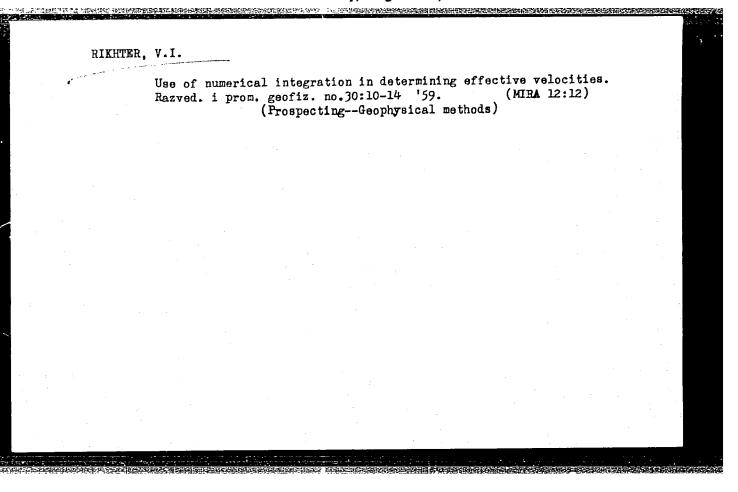
Card 2/2

ZNAMENSKIY, V.V.; RYABINKIN, L.A.; PETROV, L.V.; VARTANCV, S.P.;

GAGEL'GANTS, A.A.; KOTLYAREVSKIY, B.V.; LOZOVSKAYA, I.F.;
LYAKHOVITSKIY, F.M.; MAR'IN, N.I.; CSTROVSKIY, V.D.; PARIYSKAYA,
G.N.; RIKHTER, V.I.; RUBO, V.V.; SLUTSKCVSKIY, A. I.; TARUTS,
G.M.; TURCHANENKO, N.M.; SHMIDT, N.G.; SHNEYERSON, M.B.; GURVICH,
I.I., red.; BORUSHKO, T.I., red.izd-va; GUROVA, O.A., tekhn. red.

[Instructions for seismic prospecting]Instruktsila po seismorazvedke. Moskva, Gosgeoltekhizdat, 1962. 95 p. (MIRA 15:12)

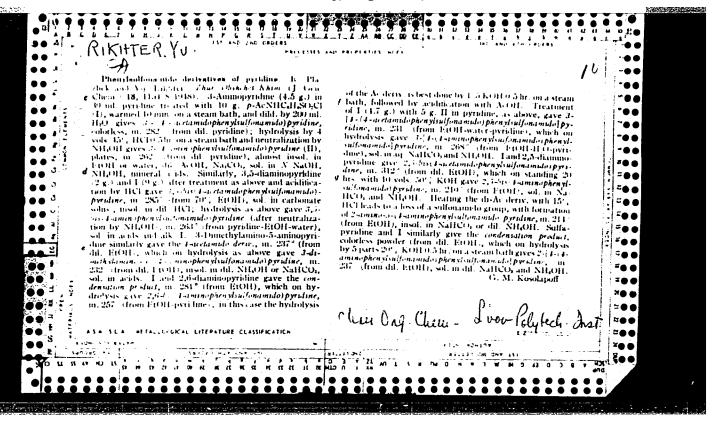
1. Russia (1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr. (Seismic prospecting)



New area of the development of an early nickel-bearing weathered surface on ultrabasic rocks in the northern Mugodznar. Uch.2ap.
SGU 74:253-255 '60. (MIRA 15:7)
(Mugodznar Hills—Nickel)
(Mugodznar Hills—Weathering)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001444



there, Ye.

I down a management of the five two of beauty of the feature two of positions, p. 11 h

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in appetition residue. The synthesis of several apparations is backibel.

In the synthesis of the feature (1930) to (20) He. 6 (195)

Its forms that I are to The tetre (1930) to (20) He. 6 (195)

RIKHTEN, Zinaida

Moscow-Peking, Kryl. rod. 9 no. 8:18-29 Ag '58. (MIRA 11:3)

(Aeronautics--Inghts)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001444 1997年,2007年1月18日,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年,1987年

AUTHOR:

Rikhter, Zinaida

Sov/85-58-8-23/40

TITLE:

Moscow-Peking (Moskva-Pekin)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 8, pp 18-20 (USSR)

ABSTRACT: The author describes a 1925 Moscow-Peking flight in which she participated. She contrasts this flight with one made in August 1956 by the TU-104, which covered the same distance of almost 7,000 km. in 8 hours flying time.

Card 1/1

RIKHTER, Z. Hydroelectric Fower Stations Where the second Onieper will flow. Rabotnitsa 30, No. 1, 1752.

Monthly List of Russian Accessions, Library of Congress, March 1952. Unclassified.

RIKHTER, Zh.

PHASE I BOOK EXPLOITATION

SOV/5975

International Institute of Welding

XII kongress Mezhdunarodnogo instituta svarki, 29 iyunya - 5 iyulya 1959 v g. Opatii (Twelfth Annual Assembly of the International Institute of Welding, Opatija, June 29 - July 5, 1959) Moscow, Mashglz, 1961. 359 p. 3000 copies printed.

Sponsoring Agency: Natsional nyy komitet SSSR po svarke,

Ed. (Title page): G. A. Maslov, Docent; Translated from English, French, and Serbo-Croatian by N. S. Aborenkova, K. N. Belyayev, E. P. Bogacheva, L. A. Borisova, K. V. Zvegintseva, V. S. Minavichev, and M. M. Shelechnik; Managing Ed. for Literature on the Hot-Working of Metals: S. Ya. Golovin, Engineer.

PUl POSE: This collection of articles is intended for welding specialists and the technical personnel of various production and repair shops.

Card 1/

29

Twelfth Annual Assembly (Cont.)

SOV / 5975

COVERAGE: The collection contains abridged reports presented and discussed at the Twelfth Annual Assembly of the International Institute of Welding. Reports deal with problems of welding and related processes used in repair work, repair techniques, and the problems arising in connection with the nature of the base and filler materials. Examples of repairing various parts are given, and the organization of repair operations in workshops and under field conditions is discussed. Economic aspects of welding and related processes as used in repair work are analyzed. No personalities are mentioned. There are no references.

TABLE OF CONTENTS: [Only Soviet and Soviet-bloc reports are given here]

Foreword

5

PART I. THE STUDY OF REPAIR-WORK TECHNIQUES (PROCESSES, METHODS, PREPARATION, HEATING, AND OTHER TYPES OF PROCESSING CONTROL)

Myuntsner, L. (Czechoslovakia). Welding of Broken Crankshafts

36

Card 2/9

Twelfth Annual Assembly (Cont.) SOV/5975	5
Yemel'yanov, N. P. (USSR). The Use of Multielectrode Automatic Submerged-Arc Welding in Repairing Railroad Rolling Stock	104
Prosents, V., and P. Shtular (Yugoslavia). Manufacture of Cutting Tools by Hard Alloy Build-Up With Argon Shielded Arc Welding and the Process Viewed From the Standpoint of Economy	114
PART II. PROBLEMS IN REPAIR WORK ARISING IN CONNECTION WITH THE NATURE OF THE BASE AND FILLER MATERIALS AND THE REQUIRED OPERATIONAL PROPERTIES (WITH CONSIDERATION OF WELDABILITY, WARPAGE, AND INTERNAL STRESSES)	
Rikhter, Zh. (Yugoslavia). Welding of the Al-Mg-Si Alloy and Problems of the Dynamic Strength of Welded Joints	128
Card 4/9	
	4

"APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001444

RIKHTER, ZINAIDA

On (Fetroleum Kombinat); urban Development; oil and related industries; Mechanical work

Soviet Source: P: Ogonek #34 (Moscow Aug 1946)

Abstracted in USAF "Treasure Island," on file in Library of Congress, Air Information Division, Report No. 77562-73

7. 0.0 kilometrov po vozdukhu. Moskva--Konsolija--Kitai. Moskva, Avididat, 1926. 156 p., illus., ports.
Title true 7,000 km. by air. Moscow--Mongolia--China.

TL721.ASAL

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

RIKHTER, Zinaida Vladimirovna. V snegakh El'brusa. Vo l'Dakh arktiki. Za ploiarnym RIKHTER, Zinaida Vladimirovna. V snegakh El'brusa. Vo l'Dakh arktiki. Za ploiarnym Rikhugom. Moskva, "Khudozhestvennaia literatura", 1936. 349 p. DIC: Unclassified

SO: IC, Soviet Geography, Part II, 1951, Unclassified

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CI

CIA-RDP86-00513R001444

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RHEUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, "Pizkul'tura i turizm", 1930. 42 p. (Biblioteka proletarskogo turista).

BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abkahazii i Khevsuretii. Noskva, BIRUTER, Zinaida Vladimirovna. V solnechnoi Abka
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RIKHTER, Zinaida Vladimirovna. V strane golubýkh ozer (ocherki Altaia). Moskva, Molodaia gvardiia. 1930. 157 p. (Biblioteka ekspeditsii i puteshestvii). DLC: Unclass.

So: LC, Soviet Geography, Past II, 1951/Unclassified.

RIMPTE, Zineida Vladimirovna. Aldan. Moskva, "Ogonek", 1928. 47 p. (Biblioteka Ogonek, no. 3/3.).

SO: IC, Soviet Geography, Part II, 1951/Unclassified

RIKETET, Zineide Vladinirovne. Zolotoi Aldan. Moskve, Gosizdat, 1927. 147 p.
Ctf IN
SO: IC, Soviet Geography, Part II, 1951/Unclassified

T-5

RIKHTEREVA

CZECHOSLOVAKTA/General Problems of Pathology - Tumors.

: Ref Zhur - Biol. No 3, 1958, 12709

Puyman, V., Dolezhelova, V., Prokopova, S., Rikhterova, Ye. Abs Jour Author

The Effect of Antileukemic Agents on Leukemic and Leuke-Inst

Title moid Changes.

Chemotherapeutica, I. Farmac. sympos. Praha, 1956, 31-33 Orig Pub

A study of the effects of 6 mercaptopurine, myleran corti-Abstract

sone, Compound 604 (gamma-methoxyphenyl-alpha, beta-dichlorocrotonlactone) and Compound 604 Br (gamma-n-methoxyphenyl-alpha, beta-dibromocrotonlactone) on mice of AKR and H strains that had received transplants of leukemia LPAK-VUFB and sarcoma 180 has shown that 6-mercaptopurine and

Cmd. 604 interfere with the development of leukemia; 6-mercaptopurine also decreases the weight of the leukemic

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CIA-RDP86-00513R0014449 APPROVED FOR RELEASE: Tuesday, August 01, 2000

RIKHVITSKY, S. V., SEMENYUSHKIN, I. N., VYSOCHAMSKIY. M. MUKHIN, S. V. and TSUN TSIN, PIN.

"Multichannel Coincidence System with Short Pules Intervals"

Joint Institute of Nuclear Research, Dubna, USSR.

report submitted for the IAEA conf. on Nuclear Electronics, Belgrade, Yugoslavia 15-20 May 1061

VYSOCHANSKIY, M., MUKHIN, S.V.; PIN TSUN: TSIN [Pring TS'un-ch'ing];
RIKHVITSKIY, S.V.; SEMENYUSHKIN, I N.

Multichannel coincidence circuit with a short separation time.
Prib.i tekh.eksp. 6 no.5:67.71 S-0 '61. (MIRA 14:10)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Electronic circuits)

<u>L 47073-65</u> EWT(1)/EEC(b)-2/EWA(h) Peb

ACCESSION NR: AP5011876

UR/0120/65/000/002/0088/0091

AUTHOR: Vysochanskiy, M.; Mukhin, S. V.; Rikhvitskiy, S. V.;

Semenyushkin, I. N.; Foltin, I.

TITLE: Multiplier phototube as a nanosecond coincidence circuit

SOURCE: Pribory i tekhnika eksperimenta, no. 2, 1965, 88-91

TOPIC TAGS: multiplier phototube, photomultiplier, coincidence circuit

ABSTRACT: A h-f-controlled multiplier phototube (FEU-36) was experimentally used as a device for detecting coincidence between the positive half-wave of the control voltage and a short-time light flash. One-nanosecond light flashes with a repetition frequency of 190 cps were obtained from the mercury relay of a GKI-4B pulse generator and compared with a 70-Mc control voltage applied to one of the dynodes. It is believed that the above method can reduce the effect of time spread of the photomultiplier output pulses on the resolution of the coincidence device. "The authors wish to thank V. M. Vishnyakova, A. N. Khrenov, and M. H. Shkobina who took part in the measurements." Orig. art. has: 5 figures and 2 formulas.

Card 1/2

47073-65			
CCESSION NR: AP5011876		(Joint Institu	te of
SSOCIATION: Ob"yedinenn	yy institut yadernykh 18		
UBMITTED: 14Feb64	ENGL: 00	SUB CODE: EC	
O REF SOV: 001	OTHER: 003	ATD PRESS: 4001	
가는 이 맛요? 전 보고 하고 있다. 오. 요. 그렇게 요. 생기가 있는 그리고 말했다.			
지는 경우를 하셨다면 하는 것이다. 그래요 나라 문제 홍하들이 하는 것을 하는 것이다.			
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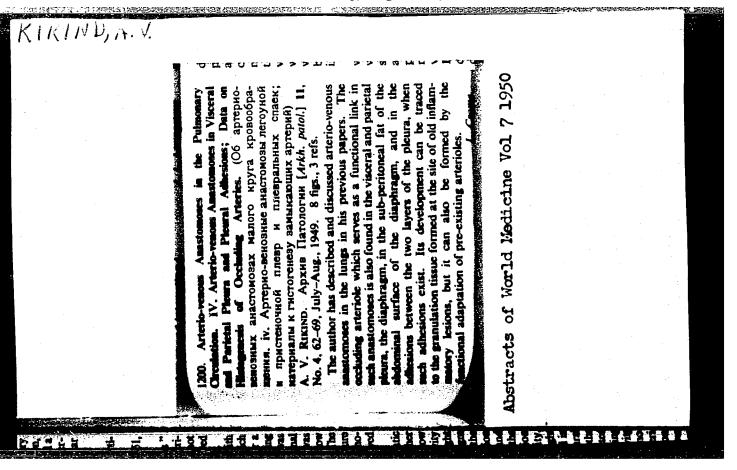
RIKICKAJA, M. S.

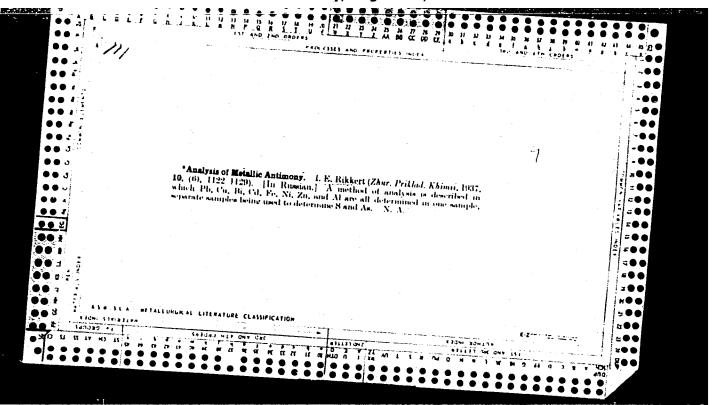
"Sur la mecanism de l'oxydation des composes organiques au moyen de l'anhydride selenieux. Communication III." Melinkov, N. N. et Rikickaja, M. S. (p. 838)

SO: Journal of General Chemistry (Zhurnal Obsachei Khimii) 1938, Vol. 8, No. 9

RIKIN, Samuil Simonovich; OSTROMUKHOV, Ya.G., inzh., retsenzent; SLIV, E.I., kand.tekhn. nauk, retsenzent; CHERKOV, R.I., kand. fiz.-mat. nauk, nauchnyy red.; KLIMINA, Ye.V., red. izd-va; FRUMKIN, P.S., tekhn. red.

[Theory of gyroscopic devices] Teoriia giroskopicheskikh ustroistv. Leningrad, Sudpromgiz. Pt.1. 1962. 506 p. (MIRA 15:7) (Gyroscopic instruments)





KHEL'P, F. [Help, K.]; BASNEV, S.P.; RIKK, E.; TIMOFEYEV, I.A.; TUL'P, M. [Tulp, M.]

One of the possible efficient ways to use tunnel gas. Khim. i tekh.gor. clan. i prod. ikh perer. no.12:106-111 '63. (MIRA 17:2)

PUTSEYKO, O.K.; RIKKEN, L.A.

Influence of radon baths on hypertension patients as shown by electrocardiographic data. Vop. kur., fizioter. i lech. fiz. kul't. 24 no. 4:301-305 J1-Ag '59. (MIRA 13:8)

1. Iz kardiologicheskogo sanatoriya na Kirovskikh ostrovakh
v Leningrade (glavnyy vrach V.N. Vvedenskiy, nauchnyy rukovoditel' prof. M.I. Khivilivitskaya).

(RADON-THERAPRUTIC USE) (HYPERTENSION)

LIAK H. V.

Extraction of themols from middle fractions of shale tar and their use for synthesis of oil-soluble the colformolichyde tars.

p. 200 (Trudy) No. 2, 1966, Tallin, Estonia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 1, JAN. 1958

VOORE, H.; KORV, M.; KUDRYAVTSEV, I.B.; KIKKEN, V.; STEPANOVA, G.G.;
TOMSON, T.; TOMSON, R.; FAYNGOL'D, S.I.; BLONBERG, N., red.

[Synthetic detergents from shale oil] Sinteticheskie moiushchie veshchestva iz slantsevoi smoly. [By] Kh.IU.Voore i dr. Tallin, Estgosizdat, 1964. 257 p. (MIRA 17:5)
1. Eesti NSV Teaduste Akadeemia. Keemia Instituut.

23-58-2-3/9

A .HOR:

TITLE:

Köll, A.T. (Kyll', A.T.), Candidate of Themical Sciences, Kudryavtsev, I.B., Rikken, V.A., Candidate of Technical Sciences

是一个大型的,还是我们们的大型,就是这种的工程就是一种人的人,这个人,这个人,这个人,这个人的人,也是一个人的人,这个人也是一个人的人,也是这个人的人,也是一个人

On the Sulfation of Oil-Shale Tar Olefinic Hydrocarbons (O sulfatirovanii olefinovykh uglevodorodov slantsevoy smoly)

PERIODICAL:

Investiya Akademii nauk Estonskoy SSR, Seriya tekhnicheskikh i fiziko-matematicheskikh nauk, 1958, Nr 2, pp 105-117 (USSR)

APSTRACT.

The considerable content of olefinic hydrocarbons in the oilshale tar found in the Baltic States is the prerequisite for obtaining synthetic detergents and wetting agents. A.T. Kyll with his coworkers have proved the possibility of obtaining surface-active substances, such as Namonoalkyl sulfates by means of sulfoesterification with concentrated sulfuric acid of olefinic hydrocarbons of dephenolized medium oil-shale fraction. Experiments have shown that sulfoproducts obtained from the oil layer, which is separated from the acid-layer, have better surface-active properties than those originating from acid-layers. Compared with "Teepol", a detergent produced in France on similar principles, and DS-RAS, a detergent developed by Institut Nefti AN SSSR (Petroleum Institute AS USSE)

Card 1/2

On the Sulfation of Oil-Shale Tar Olefinic Hydrocarbons

23-58-2-3/9

by M.A. Geyman and A.Ya. Larin, the Estonian detergent is equal to the French product and surpasses the one produced in the USSR. There are 4 tables, 8 graphs, 1 chart and 9 references, 4 of which are Soviet, 3 English and 2 German.

ASSOCIATION: Institut khimii Akademii nauk Estonskoy SSR (Institute of Chemistry of the Academy of Sciences of the Estonian SSR)

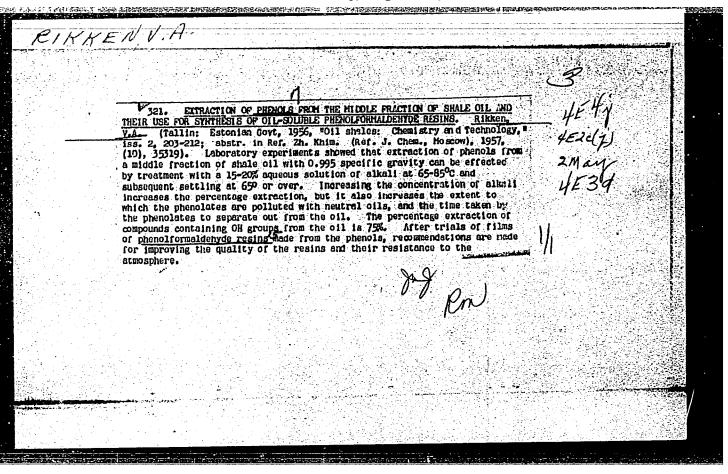
SUBMITTED:

Jan 21, 1958

Card 2/2

1. Wetting agents - Sources 2. Detergents - Sources

3. Hydrocarbons - Sulfation 4. Detergents - Evaluation



THE THE CONTINUES AND ACCOUNT OF THE CONTINUES OF THE CON

RIKEEN, V. A.

Pikken, V. A. -- "Investigation of Methods of Isolating the Phenols of the Middle Fraction of Shale Tar with the Object of Using Them for the Synthesis of Phenoloformaldehyde Lacquer Resins." Min Higher Education USSR, Leningrad Order of Labor Red Banner Technological Inst imeni Leningrad Soviet, Chair of the Technology of Lacquers and Paints, Leningrad, 1955 (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

AUTHORS:

Eyzen, O., Candidate of Technical Sciences and

Rikken. Yu.

TTTLE

On the chemical composition of oil-shale gasoline

14.00元的公司,15.00元的公司,16.00元的公司,16.00元的公司,16.00元的公司,16.00元的公司,16.00元司,16.00元司,16.00元司

sulphur compounds

PERIODICAL Akademiya nauk Estonskoy SSR. Izvestiya. Seriya

fiziko-matematicheskikh i tekhnicheskikh nauk,

no. 4, 1960, 358-366

TEXT: The authors studied the group composition of sulphur compounds of shale oil gasoline, identifying for the first time some of the individual compounds. The amount of sulphur in oil is of great importance for the oil industry: this question is being extensively studied in the Bashkir branch of the Academy of Sciences of the USSR under the leadership of Professor R.D. Obolentsev with the assistance of B.V. Ayvazov (Ref. 1: Raspredeleniye pryamoy

Card 1/7

On the chemical composition ...

Card 2/7

gonki, vyrabatyvayemykh iz sernistykh neftey (Distribution of Straight-Run Distillation of Sulphur-Containing Oil, Coll.) Sb. khimiya seraorganicheskikh soyedineniy, soderzhashchikhsya v neftyakn i neftoproduktakh (Chemistry of Organic Sulphur Compounds Contained in Crude Oil and Oil Products). Bashkir branch of AS USSR, M. 1959) and (Ref. 2: R.D. Obolentsev, A.A. Ratovskaya, K voprosu o metode gruppovogo opredeleniya seraorganicheskikh soyedinenty, predlozhennomu Bashkirskim filialom AN SSSR (On the Method of Group Determination of Organic Sulphur Compounds, Suggested by the Bashkir Branch of the AS USSR) Sb. Khimiya seroorganicheskikh soyedineniy, soderzhashchikhsya v nefti i neftoproductakh, Bashkirsk. filial AN SSSR, M. 1959), but up till now little has been done in this direction for shale oil of the Baltic oil shale basin. Previous works of A. Usk and I.G. Stoler (Ref. 3: Izyskaniye sposobov uluchsheniya kachestva slantsevogo benzina (Search for Methods of Improving the Quality of Shale Gasoline) Sb. Goryuchiye slantsy, Khimiya; Tekhnologiya, N2, AN ESSR, Tallin, 1956), and of P. Kogerman, K. Luts, Yu. Khyusse (Ref. 4: Khimiya

On the chemical composition ...

estonskikh slantsev (Chemistry of Estonian Shale) ONTIGKhTI, 1934) deal mostly with the general content of sulphur in shale oil, a more detailed study had been made only by Kh.A. Silland (Ref. 5: 0 gruppovom sostave sernistykh soyedineniy slantsevoy smoly (On the Group Composition of Sulphur Compounds of Shale Pitch) Tr. Tallinsk. politekhnin-ta, Ser. A. No. 97, 1957) and (Ref. 6: 0 posledovatel nom opredelinii klassov sernistykh soyedineniy v slantsevoy smole (On the Consecutive Determination of Classes of Sulphur Compounds in Shale Pitch)Tr. Tallinsk. politekhn. in-ta. Ser. A, No. 97, 1957). The authors investigated gasolines from tars produced in tunnel furnaces, in chamber kilns, in carbonization installations with heat carrying solid agents and from generator tar; the general sulphur content in these tars was found to be in the range 0.7 - 1.1 % the largest being from the chamber kiln type. Samples of gasoline (15 - 30 kg) were rectified to narrow (1 - 50) fractions in a distillation column with a selectivity of 60 theoretical plates, 40 - 60 fractions from each rectification having been collected. The sulphur content was determined in the frac-Card 3/7

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s/023/60/000/004/004/005 D221/D305

On the chemical composition ...

tions by means of the lamp method /Abstractor's note: The method is not described and its distribution, depending on the distillation temperature showed definite maxima at 79 - 86°, 107 - 110°, 132 - 1370 and 155 - 1600, with minima in between. These peaks of sulphur content are almost identical for all gasolines studied which proves that they correspond to few individual compounds, whose presence depends directly on the composition and structure of the combustible material in the oil shale. From this observation it follows that for practical purposes, it is possible to free gasoline from sulphur compounds by its detailed rectification. The authors determined the group composition of sulphur compounds in fractions, corresponding to maximum and minimum sulphur contents by means of chromatography on silica- and alumina gels as absorbers. By this method the studied fractions were divided into paraffins and naphthenes, olefins, aromatic hydrocarbons and oxygen compounds. It was found that 75 % of sulphur compounds belong to aromatic hydrocarbons, the remaining 25 % being associated with

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On the chemical composition ...

oxygen compounds. Paraffins were free from sulphur, olefins contain it in very negligible quantities. The authors paid attention to determining compounds of the thiophene and disulphide series. The disulphide amount was determined by means of reduction in acetic acid solution and subsequent titration with silver nitrate (Ref. 6: Op.cit.). The amount of sulphide sulphur was determined by the Kh. A. Silland method (Ref. 6: Op.cit.) /Abstractor's note: Method not described 7. The thiophene sulphur was determined by the method of L.S. Levitt and E. Howard (Ref. 14: Anal. Chem. 25, p. 196. 1953) by oxidation with nitric acid to sulphuric acid and precipitation with barium chloride. Qualitative determinations of free sulphur, hydrogen sulphide and mercaptans were also carried out, with negative results which proves that sulphur compounds in crude gasoline do not decompose during the rectification process. The identification of individual compounds of the thiophene series were performed by infra-red spectral analysis in the case of gasoline from an installation with a heat-carrying solid agent, after its

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S/023/60/000/004/004/005 D221/D305

On the chemical composition ...

concentration by chromatography and in the case of chamber kilns gasoline directly after rectification. The analysis was carried out with the spectrograph IKS 14, in the range 2000 - 700 cm⁻¹ in potassium bromide basins, the thickness of the studied layer being in the range from 0.01 - 0.05 mm; time of exposition - 45 min. The following compounds were identified by this method: thiophene, 2 -methylthiophene, 3-methylthiophene, 2-ethylthiophene, 2.3-dimethylthiophene and 2.5-dimethylthiophene. In the fraction 156 - 158°C of chamber-kiln gasoline, the presence of 3-isopropylthiophene was very probable. There are 2 figures, 6 tables and 17 references: 12 Soviet-bloc and 5 non-Soviet-bloc. The four references to the English language publications read as follows: L. Lundquist, Oil shale and Cannel Coal. vol. 2 London 1951 p. 621; S.W. Kinney, J.R. Smith, J.S. Ball, Anal. Chem. 24, p. 1749, 1952; C.J. Thomson, H.Y. Coleman, H.T. Rall, H.M. Smith, Anal. Chem. 27. p. 175, 1955; Howard D. Hartough, Thiophene and its Derivatives, 65

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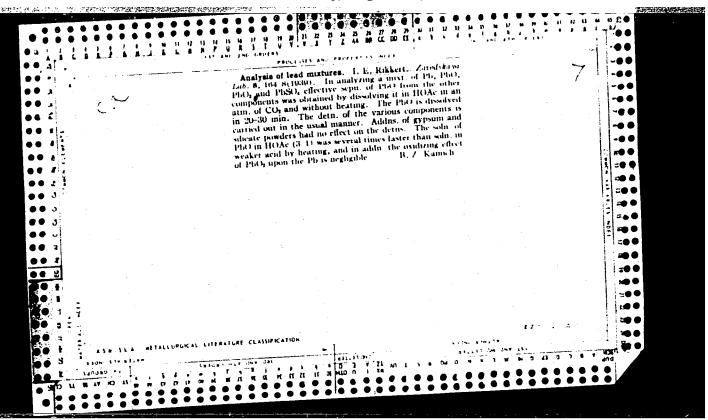
Interscience Publishers New York - London, 1952.

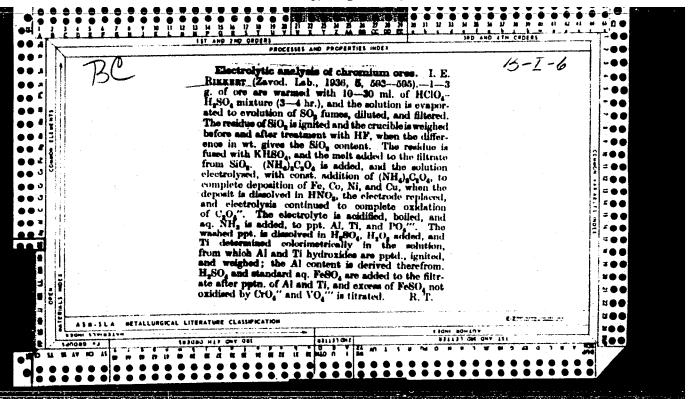
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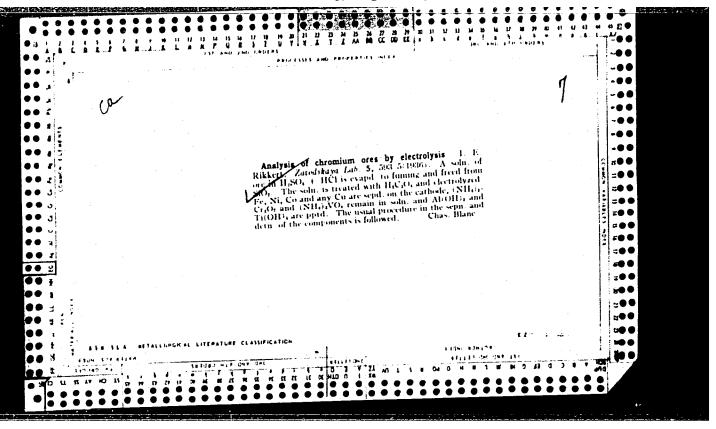
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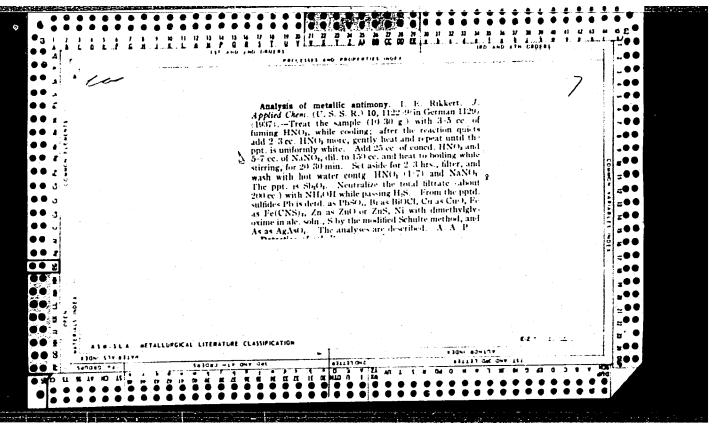
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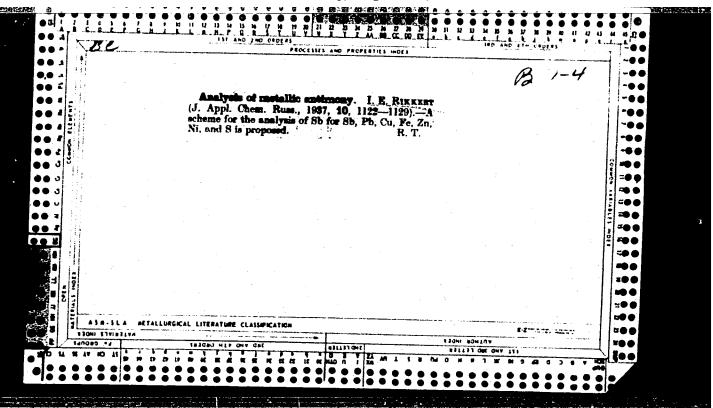
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